

Date: Sat, 30 Jul 94 04:30:22 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V94 #243  
To: Ham-Ant

Ham-Ant Digest Sat, 30 Jul 94 Volume 94 : Issue 243

## Today's Topics:

20m dipole problems HELP  
Help: World Radio TV Handbook?  
I need your help-dual mobile antenna  
Need advice on towers  
RF Sealing HELP!!!!  
Rotator Advice Wanted  
Sources of commercial DFing equipment??  
WANTED MAST MOUNT FOR ALLIANCE HD73

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 29 Jul 1994 14:18:40 GMT  
From: gatech!newsfeed.pitt.edu!gvls1!rossi@uunet.uu.net  
Subject: 20m dipole problems HELP  
To: ham-ant@ucsd.edu

In article <6e.1438.719.0N666787@cencore.com> [forrest.gehrke@cencore.com](mailto:forrest.gehrke@cencore.com) (Forrest Gehrke) writes:

>  
>PA> Hello everyone, I have a 20m dipole suspended about 5 feet above my  
>PA>roof by two poles. I seem to put out a fairly good signal with it, but I get  
>PA>horrible noise. Our power lines are parallel so that may be the problem.

>allowable noise. Our power lines are parallel so  
>

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>1 Call power company and request they fix noise problem

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> on their lines. (This due to cracked insulator or  
> tree branches touching lines nearby to your area).  
>  
>2. Request power company orient its lines 90 degrees to  
> your antenna.

WILL THEY REALLY DO THIS FOR YOU???

>3. You orient your antenna 90 degrees to power lines.

>  
>4. Get a better noise blanker for your receiver.

5. Put up a 100 ft tower to get the antenna away from the power lines.

6. MOVE! [ Sorry :-) ]

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Date: Fri, 29 Jul 1994 05:07:58 GMT  
From: news.Hawaii.Edu!kahuna!jeffrey@ames.arpa  
Subject: Help: World Radio TV Handbook?  
To: ham-ant@ucsd.edu

Our university library gets a new copy each year; check your public  
and college libraries for a possible copy.

Jeff NH6IL  
jeffrey@math.hawaii.edu

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Date: Thu, 28 Jul 1994 20:13:58 -0700  
From: ihnp4.ucsd.edu!news.acns.nwu.edu!math.ohio-state.edu!howland.reston.ans.net!  
gatech!news.byu.edu!yvax.byu.edu!harris-home.byu.edu!user@network.ucsd.edu  
Subject: I need your help-dual mobile antenna  
To: ham-ant@ucsd.edu

My wife(KC7DTS) and I(KC7CSK) just recently obtained our licenses and we  
are interested in installing 2m/440 mobile transceivers in our Suburban and  
3/4 Ton Ford pickup. Being new hams we are not very familiar with mobile  
antennas and mobile rigs and would appreciate your help. We are most  
interested in your recommendations for mobile antennas (I don't mind  
drilling holes). Have any of you out there had experience with dual band  
antennas for a Suburban and/or 3/4 T pickup?

Also, any recommendations regarding good dual band transceivers would be  
greatly appreciated. Post responses here or Email.

Thanks very much and 73

Richard Harris

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Date: Fri, 29 Jul 1994 15:06:48 GMT  
From: brunix!rn@uunet.uu.net  
Subject: Need advice on towers  
To: ham-ant@ucsd.edu

I would like to get the net's advice/wisdom/experience/opinions on fixed towers (not crankups) on the order of 50' to 100'. Who is regarded as making the highest quality towers? What can I expect to spend? Where can I obtain info on installation (guy wires, concrete for the base, etc)? Is there a knowledgeable person in the vicinity of Providence, RI who would be willing to chat in person and provide some help?

Rob Netzer, KD1TS  
rn@cs.brown.edu

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Date: Thu, 28 Jul 94 19:30:41 -0500  
From: news.delphi.com!usenet@uunet.uu.net  
Subject: RF Sealing HELP!!!!  
To: ham-ant@ucsd.edu

Hey out there!! I'm hoping that by posting this note I can contact some kind of materials guru or radio communications expert.

I work for a company in Boulder, Colorado, and we use an RF (radio frequency) sealer to seal a fluid inside a urethane bladder. This bladder is then used in wheelchair seating and hospital beds. The problem is that we have a new formula for the fluid that is not very RF absorptive. What ends up happening is that the urethane bladder melts before the fluid gets hot enough to move away, so we get a bad seal.

What we need is some kind of substance that:

1. absorbs RF energy well (i.e. it has a high loss tangent)
2. is compatible with a hydrocarbon fluid
3. is notably non-toxic.

Ideally we would mix trace amounts of the substance into our current fluid to yield a higher net loss tangent, thereby making it more able to heat up and melt away from the seal.

I would greatly appreciate any assistance, including references to other groups/companies. If you have any ideas drop me a note at JASONJAY@delphi.com or post a response on this newsgroup :)

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Date: Fri, 29 Jul 94 09:54:00 -0500  
From: ihnp4.ucsd.edu!agate!iat.holonet.net!cencore!forrest.gehrke@network.ucsd.edu  
Subject: Rotator Advice Wanted  
To: ham-ant@ucsd.edu

I have sustained a lightning strike on my tower which has destroyed the rotator and its control (along with nearly every electronic piece of equipment in the house).

The rotator is a Hy-gain Rotobrake 400 which is over 20 years old and is no longer available or even supported with parts by Hy-gain.

The antenna is a 5 Element 20Meter Yagi on a 50 ft. 3" boom. Elements average 1" dia.

I estimate the wind area to be about 13 square feet.

Looking at the Amateur Electronic Supply Catalog there's not much to choose for this size array except the Yaesu line and their G-1000SDX unit in particular.

This unit is rated 23 sq.ft. max. and braking torque 433 ft.lbs.

The tower is near the top of long rise from the northwest and every two or three years we see a typical nor'easter which swings around to the northwest and my anemometer will register wind gusts 90MPH (its maximum reading) for several seconds.

The Rotobrake was rated at braking torque 416 ft.lbs. I had to change the control so that the brake solenoid was always on--therefore no brake--so that the wind gusts would not tear the rotator apart over time. It would act like a very large weather vane! The Rotobrake was built on a cast aluminum base and all bearings quickly wore out-of-round.

I have never seen the Yaesu rotators and haven't any idea of what experience with them would show. Anyone out there with that experience who has a fair size array? Any other rotators I should be looking at?

---k2bt

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≥ SLMR 2.1a ≥ WHAT? Take you to our leader? PLEASE take him with you!

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Date: Thu, 28 Jul 1994 18:50:56 GMT  
From: lll-winken.llnl.gov!uwm.edu!mixcom.com!kevin.jessup@ames.arpa  
Subject: Sources of commercial DFing equipment??  
To: ham-ant@ucsd.edu

I am considering purchase/evaluation of commercial transmitter hunting/direction-finding equipment such as those offered by Doppler Systems. Are there other manufacturers?

Also, are such systems usually only available directly from the manufacturer??

I am considering a project to link several systems together via software and land-line modem or maybe an RF link. Thanks.

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kevin.jessup@mixcom.com | Vote Libertarian!  
|  
| Call 1-800-682-1776  
| for more information.

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Date: Thu, 28 Jul 1994 15:56:23 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!vixen.cso.uiuc.edu!  
newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!osuunx.ucc.okstate.edu!cherokee.nsuok.edu!  
peaster@network.ucsd.edu  
Subject: WANTED MAST MOUNT FOR ALLIANCE HD73  
To: ham-ant@ucsd.edu

I am looking for a mast mount for an Alliance HD-73 rotor.  
If you have such an item please leave me E-Mail at  
Peaster@Cherokee.NSUok.edu

Thanks & 73'S  
Mike Peaster  
KC5BNC  
Peaster@Cherokee.NSUok.edu

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End of Ham-Ant Digest V94 #243

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